



Xonar HDAV1.3 Deluxe



Enjoy 100% Blu-Ray Quality Audio with
HDMI 1.3 Compliance, Video Enhancement
and 7.1 Channel Analog Output

- Full-HD Audio/Video digital output
- HDMI v1.3a compliance
- Non-downsampled 192kHz Blu-Ray audio
- Splendid Technology Video enhancement
- Complete Dolby True HD & DTS Master Audio support

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Specifications

Audio Performance	<p>Output Signal-to-Noise Ratio (A-Weighted): Up to 120 dB for all channels dB dB</p> <p>Output THD+N at 1kHz: Up to 0.0004% (-108dB)</p> <p>Frequency Response (-3dB, 24-bit/96kHz input): <10Hz to 46kHz</p> <p>Sample Rate Conversion Quality: Almost lossless, high-fidelity floating-point filters, with: -140dB THD+N (typical value for 44.1K->48KHz, 24bit) 145dB Dynamic Range (typical value for 44.1K->48KHz, 24bit)</p>
Bus Compatibility	<p>HDMI (High-Definition Multimedia Interface): -Compliant with HDMI v1.3a industrial standard -HDCP 1.2 compatible -DVI 1.0 compatible</p>
Main Chipset	<p>Audio Processor: ASUS AV200 High-Definition Sound Processor (Max. 192KHz/24bit)</p> <p>24-bit D-A Converter of Digital Sources: TI Burr-Brown PCM1796 *4 (123dB SNR, Max. 192kHz/24bit)</p> <p>24-bit A-D Converter for Analog Inputs: Cirrus-Logic CS5381* 1 (120dB SNR, Max. 192kHz/24bit)</p>
Video Specification	<p>Video Resolution: -DTV Resolution: 480i, 576i, 480p, 576p, 720p, 1080i up to 1080p -PC Resolution: graphics, Sgraphics, XGA, SXGA, UXGA</p> <p>Enhanced Splendid HD Modes: -Photo, Video, Gaming modes selectable (Gaming mode requires ASUS graphics card)</p> <p>Color Depth and Range: -Color depth: supports higher 24, 30, 36, 48-bit/per pixel color depths (RGB or YCbCr) -Color range: supports broader xvYCC color space standard</p>
Sample Rate and Resolution	<p>Analog Playback Sample Rate and Resolution: 44.1K/48K/96K/192KHz @ 16/24bit</p> <p>Analog Recording Sample Rate and Resolution: 44.1K/48K/96K/192KHz @ 16/24bit</p> <p>S/PDIF Digital Output: Dolby Digital, DTS, WMA-Pro</p> <p>S/PDIF Digital Input: 44.1K/48K/96K/192KHz @ 16/24bit</p> <p>ASIO 2.0 Driver Support: 44.1K/48K/96K/192KHz @ 16/24bit</p>

I/O Ports <p>Analog Output Jack: RCA jack *8</p> <p>Analog Input Jack: Line-In/Mic-In 3.50mm mini jack *1</p> <p>Other line-level analog input (for CD-IN/TV Tuner): CD-In, Aux-In (4-pin header on the card)</p> <p>Digital S/PDIF Output: Coaxial and High-bandwidth Optical Combo Connector Supports 192KHz/24bit</p> <p>Digital S/PDIF Input: Coaxial and High-bandwidth Optical Combo Connector Supports 192KHz/24bit (Shared with Line/Mic In)</p> <p>HDMI Input/Outut: HDMI1.3 - In/Out Type A *1</p>	<p>Operation System: Windows Vista/XP(32/64bit)/MCE2005</p> <p>Dolby® Technologies:</p> <p>Dolby® Digital Live: Dolby Digital Live encodes any audio signal on PC in real-time to Dolby Digital (AC3) 5.1 surround sounds to your home theater environment through one single S/PDIF connection</p> <p>Dolby® Headphone: Dolby Headphone technology allows users to listen to music, watch movies, or play games with the dramatic 5.1-channel surround or realistic 3D spacious effects through any set of stereo headphones</p> <p>Dolby® Virtual Speaker: Dolby Virtual Speaker technology simulates a highly realistic 5.1-speaker surround sound listening environment from as few as two speakers.</p> <p>Dolby® Pro-Logic IIx: Dolby Pro-Logic II is the well-known technology to process any native stereo or 5.1-channel audio into a 6.1- or 7.1- channel output, creating a seamless, natural surround sound field.</p> <p>DTS® Technologies:</p> <p>DTS® Connect contains DTS Interactive Encoder and DTS Neo:PC technologies. DTS Interactive encodes any sound on PC to "DTS 5.1 Surround" high bitrate digital stream to your home theater through S/PDIF connection. DTS Neo:PC can convert stereo audio into 5.1 or 7.1-channel high-fidelity surround sounds.</p> <p>Smart Volume Normalizer™: Normalizes the volume of all audio sources into a constant level and also enhances your 3D sound listening range and advantages in gaming</p> <p>Xear 3D™ Virtual Speaker Shifter: Virtual 7.1 speaker positioning and shifting to adjust the optimum soundfield for your speaker placement</p> <p>Magic Voice™: Modifies and disguises the sound tone of your voice for VOIP and online chat applications</p> <p>Karaoke Functions: Music Key-Shifting and Microphone Echo effects</p> <p>FlexBass™: Professional Bass Management/Enhancement system for small or large speakers</p> <p>Other Effects: 10-band Equalizer/27 Environment Effects</p> <p>3D Sound Engines/APIs: Vista: DirectSound3D® GX 2.5, DirectSound® HW, DirectSound SW, A3D®1.0, OpenAL generic modes, 128 3D sounds processing capability</p> <p>XP: DirectSound2.5 SW, A3D®1.0, OpenAL generic modes, 128 3D sounds processing capability</p> <p>DirectX: DirectX 9.0 or above required for 7.1ch output</p> <p>Splendid HD Video Enhancements: Proprietary Splendid video engine increases color performance and enhance edges for a more brilliant and crispy image</p>
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Bundled Software Utility	ArcSoft Total Media Player: Supports playback of all three Blu-ray disc video formats: High Definition MPEG-2, AVC, and VC1's well as all kinds of other High Definition (HD) content: WMV HD, Quicktime HD, DivX HD, and H.264 HD
Accessories	4 x 3.5mm-to-RCA adaptor cable (8ch) 2 x S/PDIF optical adaptors 1 x DVI-to-HDMI cable 1 x H6 Extension Board Cable

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- PCB color and bundled software versions are subject to change without notice.
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